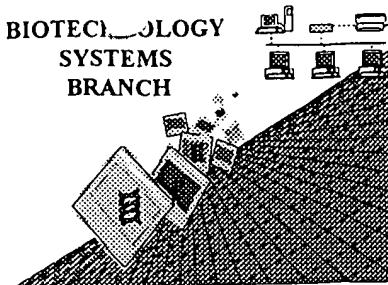


RAW SEQUENCE LISTING **ERROR REPORT**

BIOTECHNOLOGY
SYSTEMS
BRANCH



0590
06/21
H.S. / S

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/723,326

Source: OIPE

Date Processed by STIC: 5-23-01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/723,326

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line. This may occur if your file
 Wrapped Aminos was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will
 . prevent "wrapping."

- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

- 3 Misaligned Amino The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers;
 Numbering use space characters, instead.

- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please
 ensure your subsequent submission is saved in ASCII text.

- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules,
 each n or Xaa can only represent a single residue. Please present the maximum number of each
 residue having variable length and indicate in the <220>-<223> section that some may be missing.

- 6 PatentIn 2.0 A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
 "bug" sequences(s) . Normally, PatentIn would automatically generate this section from the
 previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to
 the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for
 Artificial or Unknown sequences.

- 7 Skipped Sequences Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (OLD RULES) (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

- 8 Skipped Sequences Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 (NEW RULES) <210> sequence id number
 <400> sequence id number
 000

- 9 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
 (NEW RULES) Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

- 10 Invalid <213> Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or
 Response scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or
 is Artificial Sequence

- 11 ✓ Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or
 "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

- 12 PatentIn 2.0 Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file,
 "bug" resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence
 listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/723,326

DATE: 05/23/2001

TIME: 10:32:47

Input Set : A:\09723326.txt

Output Set: C:\CRF3\05232001\I723326.raw

3 <110> APPLICANT: WEBSTER, Keith A.
5 <120> TITLE OF INVENTION: A Molecular Switch for Regulating Mammalian Gene Expression
7 <130> FILE REFERENCE: 70373/268461 - UM99-29
9 <140> CURRENT APPLICATION NUMBER: US 09/723,326
10 <141> CURRENT FILING DATE: 2000-11-28
12 <150> PRIOR APPLICATION NUMBER: US 60/171,597
13 <151> PRIOR FILING DATE: 1999-12-23
15 <160> NUMBER OF SEQ ID NOS: 16
17 <170> SOFTWARE: PatentIn version 3.0
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 21
21 <212> TYPE: DNA
C--> 22 <213> ORGANISM: Artificial
24 <220> FEATURE:
25 <223> OTHER INFORMATION: oligonucleotide
27 <400> SEQUENCE: 1
28 tgtcacgtcc tgcacgacgt a
31 <210> SEQ ID NO: 2
32 <211> LENGTH: 22
33 <212> TYPE: DNA
C--> 34 <213> ORGANISM: Artificial
36 <220> FEATURE:
37 <223> OTHER INFORMATION: oligonucleotide
39 <400> SEQUENCE: 2
40 cttcagcacc gcggacagtg cc
43 <210> SEQ ID NO: 3
44 <211> LENGTH: 22
45 <212> TYPE: DNA
C--> 46 <213> ORGANISM: Artificial
48 <220> FEATURE:
49 <223> OTHER INFORMATION: oligonucleotide
51 <400> SEQUENCE: 3
52 tgtccattcc tgcacgacgt ac
55 <210> SEQ ID NO: 4
56 <211> LENGTH: 22
57 <212> TYPE: DNA
C--> 58 <213> ORGANISM: Artificial
60 <220> FEATURE:
61 <223> OTHER INFORMATION: oligonucleotide
63 <400> SEQUENCE: 4
64 cttcagcacc gcttacagtg cc
67 <210> SEQ ID NO: 5
68 <211> LENGTH: 43
69 <212> TYPE: DNA
C--> 70 <213> ORGANISM: Artificial
72 <220> FEATURE:
73 <223> OTHER INFORMATION: oligonucleotide

Does Not Comply
Corrected Diskette Needed
global error

21
Circled <223> response
must be more specific.
What is the source of
the genetic material in
the artificial sequences?
22

See # 11 on the Error
Summary Sheet.
22

Note: This error is indicated
throughout the sequence
listing. please review
and correct.

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/723,326

DATE: 05/23/2001

TIME: 10:32:47

Input Set : A:\09723326.txt

Output Set: C:\CRF3\05232001\I723326.raw

```

75 <400> SEQUENCE: 5
76 cttcagcacc gcggacagt cctgtcacgt cctgcacgac gta 43
79 <210> SEQ ID NO: 6
80 <211> LENGTH: 86
81 <212> TYPE: DNA
C--> 82 <213> ORGANISM: Artificial
84 <220> FEATURE:
85 <223> OTHER INFORMATION: oligonucleotide
87 <400> SEQUENCE: 6
88 cttcagcacc gcggacagt cctgtcacgt cctgcacgac gtacttcagc accgcggaca 60
90 gtgcctgtca cgtcctgcac gacgta 86
93 <210> SEQ ID NO: 7
94 <211> LENGTH: 123
95 <212> TYPE: DNA
C--> 96 <213> ORGANISM: Artificial
98 <220> FEATURE:
99 <223> OTHER INFORMATION: oligonucleotide
101 <400> SEQUENCE: 7
102 cttcagcacc gcggacagt cctgtcacgt cctgcacgac ttcagcaccg cggacagtgc 60
104 ctgtcacgtc ctgcacgact tcagcaccgc ggacagtgcc tgtcacgtcc tgcacgacgg 120
106 tac 123
109 <210> SEQ ID NO: 8
110 <211> LENGTH: 33
111 <212> TYPE: DNA
C--> 112 <213> ORGANISM: Artificial
114 <220> FEATURE:
115 <223> OTHER INFORMATION: oligonucleotide
117 <400> SEQUENCE: 8
118 cttcagcacc gcggacagtc acgtcctgca cga 33
121 <210> SEQ ID NO: 9
122 <211> LENGTH: 129
123 <212> TYPE: DNA
C--> 124 <213> ORGANISM: Artificial
126 <220> FEATURE:
127 <223> OTHER INFORMATION: oligonucleotide
129 <400> SEQUENCE: 9
130 cttcagcacc gcttacagt cctgtcacgt cctgcacgac gtacttcagc accgcttaca 60
132 gtgcctgtca cgtcctgcac gacgtacttc agcaccgctt acagtgcctg tcacgtcctg 120
134 cagcagcta 129
137 <210> SEQ ID NO: 10
138 <211> LENGTH: 132
139 <212> TYPE: DNA
C--> 140 <213> ORGANISM: Artificial
142 <220> FEATURE:
143 <223> OTHER INFORMATION: oligonucleotide
145 <400> SEQUENCE: 10
146 cttcagcacc gcggacagt cctgtccatt cctgcacgac gtaccttcag caccgcggac 60
148 agtgccgtgc cattcctgca cgacgtacct tcagcaccgc ggacagtgcc tgtccattcc 120
150 tgcacgacgt ac 132

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/723,326

DATE: 05/23/2001

TIME: 10:32:47

Input Set : A:\09723326.txt

Output Set: C:\CRF3\05232001\I723326.raw

```

153 <210> SEQ ID NO: 11
154 <211> LENGTH: 116
155 <212> TYPE: DNA
C--> 156 <213> ORGANISM: Artificial
158 <220> FEATURE:
159 <223> OTHER INFORMATION: oligonucleotide
161 <400> SEQUENCE: 11
162 cttcagcacc gcggacagtt gaggggactt tcccaggctt cagcaccgcg gacagttgag      60
164 gggactttcc caggcttcag caccgcggac agttgagggg actttcccag gcgtac      116
167 <210> SEQ ID NO: 12
168 <211> LENGTH: 116
169 <212> TYPE: DNA
C--> 170 <213> ORGANISM: Artificial
172 <220> FEATURE:
173 <223> OTHER INFORMATION: oligonucleotide
175 <400> SEQUENCE: 12
176 cttcagcacc gcttacagtt gaggggactt tcccaggctt cagcaccgct tacagttgag      60
178 gggactttcc caggcttcag caccgcttac agttgagggg actttcccag gcgtac      116
181 <210> SEQ ID NO: 13
182 <211> LENGTH: 199
183 <212> TYPE: DNA
C--> 184 <213> ORGANISM: Artificial
186 <220> FEATURE:
187 <223> OTHER INFORMATION: oligonucleotide
189 <400> SEQUENCE: 13
190 cttcagcacc gcggacagtt gacacgatca cctcccatta aggagagaga tctccttcag      60
192 caccgcggac agttgacacg atcacctccc attaaggaga gagatctcct tcagcaccgc      120
194 ggacagttga cacgatcacc tcccattaag gagagagatc tccttcagca ccgcggacag      180
196 ttgaggggac tttcccagg      199
199 <210> SEQ ID NO: 14
200 <211> LENGTH: 162
201 <212> TYPE: DNA
C--> 202 <213> ORGANISM: Artificial
204 <220> FEATURE:
205 <223> OTHER INFORMATION: oligonucleotide
207 <400> SEQUENCE: 14
208 cttcagcacc gcggacagtt gagcttcggg gcttttgcac tcgtcccggc tctacttcag      60
210 caccgcggac agttgagctt cggggctttt gcactcgtcc cggctctact tcagcaccgc      120
212 ggacagttga gcttcggggc ttttgactc gtcccggctc ta      162
215 <210> SEQ ID NO: 15
216 <211> LENGTH: 52
217 <212> TYPE: DNA
C--> 218 <213> ORGANISM: Artificial
220 <220> FEATURE:
221 <223> OTHER INFORMATION: oligonucleotide
223 <400> SEQUENCE: 15
224 ctggccttat ctccggctgc acgttgacctg ttggtgacta ataacacaat aa      52
227 <210> SEQ ID NO: 16
228 <211> LENGTH: 162

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RAW SEQUENCE LISTING

DATE: 05/23/2001

PATENT APPLICATION: US/09/723,326

TIME: 10:32:47

Input Set : A:\09723326.txt

Output Set: C:\CRF3\05232001\I723326.raw

229 <212> TYPE: DNA
C--> 230 <213> ORGANISM: Artificial
232 <220> FEATURE:
233 <223> OTHER INFORMATION: oligonucleotide
235 <400> SEQUENCE: 16
236 cttcagcacc gcggacagtt gacacgatca cctcccatta aggagagaga tctccttcag 60
238 caccgcggac agttgacacg atcacctccc attaaggaga gagatctcct tcagcaccgc 120
240 ggacagttga cacgatcacc tcccattaag gagagagatc tc 162

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/723,326

DATE: 05/23/2001

TIME: 10:32:48

Input Set : A:\09723326.txt

Output Set: C:\CRF3\05232001\I723326.raw

L:22 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1
L:34 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2
L:46 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3
L:58 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
L:70 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:82 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
L:96 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7
L:112 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8
L:124 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
L:140 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:156 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
L:170 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12
L:184 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13
L:202 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14
L:218 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:15
L:230 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:16